

Table 1: NetLogo Statistics for Epstein Model

Variable	Mean	Std. Dev.	Min	Max
Rioting Citizens	78.611	142.533	0.000	395.000
Quiet Citizens	742.093	314.011	132.869	1,120.000
Jailed Citizens	221.386	151.139	0.000	465.000
Mean Jail Term	2.140	1.720	0.000	5.307
Mean Risk Aversion (C)	0.428	0.186	0.007	0.510
Mean Hardship (C)	0.430	0.186	0.008	0.518
Mean Grievance (C)	0.275	0.118	0.008	0.338
Mean Net Risk (C)	0.348	0.193	0.000	0.510
Mean Decision Formula (C)	-0.023	0.205	-0.205	0.338
Mean Arrest Probability (C)	0.695	0.384	0.000	1.000

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	27.077	23.826	0.000	64.000
Arresting Police	34.586	24.252	0.000	64.000
Mean Risk Aversion (P)	0.219	0.092	0.019	0.296
Mean Hardship (P)	0.216	0.090	0.018	0.287
Mean Incentive (P)	0.390	0.243	0.000	0.644
Mean Net Risk (P)	0.190	0.124	0.000	0.296
Mean Decision Formula (P)	0.203	0.296	-0.285	0.644
Rioting Citizens	384.208	432.768	0.000	1084.000
Quiet Citizens	615.556	430.179	36.000	1120.000
Jailed Citizens	191.272	290.883	0.000	818.000
Mean Jail Term	1.755	2.730	0.000	7.670
Mean Risk Aversion (C)	0.430	0.186	0.008	0.519
Mean Hardship (C)	0.429	0.186	0.009	0.518
Mean Grievance (C)	0.087	0.334	-0.522	0.338
Mean Net Risk (C)	0.281	0.220	0.000	0.519
Mean Decision Formula (C)	-0.107	0.284	-0.522	0.334
Mean Arrest Probability (C)	0.557	0.434	0.000	1.000
Mean Threshold (P)	0.127	0.087	0.021	0.281
Mean Threshold (C)	0.132	0.079	0.034	0.260
Gov. Legitimacy Feedback	0.516	0.321	0.000	0.820

Table 2: Summary of Statistical Data for Political Oppression Level (4)

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	31.501	28.039	0.000	80.000
Arresting Police	45.180	28.968	0.000	80.000
Mean Risk Aversion (P)	0.216	0.090	0.017	0.281
Mean Hardship (P)	0.216	0.091	0.014	0.278
Mean Incentive (P)	0.404	0.240	0.000	0.643
Mean Net Risk (P)	0.186	0.121	0.000	0.281
Mean Decision Formula (P)	0.220	0.287	-0.280	0.643
Rioting Citizens	337.371	405.202	0.000	1099.000
Quiet Citizens	659.972	452.388	21.000	1120.000
Jailed Citizens	213.709	327.213	0.000	921.000
Mean Jail Term	2.016	3.229	0.000	9.071
Mean Risk Aversion (C)	0.429	0.186	0.008	0.517
Mean Hardship (C)	0.428	0.185	0.009	0.515
Mean Grievance (C)	0.105	0.316	-0.516	0.335
Mean Net Risk (C)	0.291	0.225	0.000	0.517
Mean Decision Formula (C)	-0.111	0.278	-0.516	0.332
Mean Arrest Probability (C)	0.580	0.448	0.000	1.000
Mean Threshold (P)	0.137	0.087	0.037	0.281
Mean Threshold (C)	0.133	0.088	0.018	0.285
Gov. Legitimacy Feedback	0.535	0.315	0.000	0.820

Table 3: Summary of Statistical Data for Political Oppression Level (5)

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	33.989	31.346	0.000	96.000
Arresting Police	57.316	33.321	0.000	96.000
Mean Risk Aversion (P)	0.216	0.091	0.014	0.280
Mean Hardship (P)	0.218	0.093	0.013	0.286
Mean Incentive (P)	0.424	0.240	0.000	0.640
Mean Net Risk (P)	0.184	0.121	0.000	0.280
Mean Decision Formula (P)	0.241	0.278	-0.280	0.640
Rioting Citizens	289.255	397.534	0.000	1116.000
Quiet Citizens	687.593	465.078	4.000	1120.000
Jailed Citizens	193.256	337.178	0.000	936.000
Mean Jail Term	1.783	3.169	0.000	8.779
Mean Risk Aversion (C)	0.431	0.187	0.008	0.522
Mean Hardship (C)	0.429	0.185	0.009	0.517
Mean Grievance (C)	0.132	0.305	-0.518	0.337
Mean Net Risk (C)	0.298	0.229	0.000	0.522
Mean Decision Formula (C)	-0.115	0.277	-0.518	0.336
Mean Arrest Probability (C)	0.591	0.452	0.000	1.000
Mean Threshold (P)	0.137	0.079	0.027	0.252
Mean Threshold (C)	0.131	0.090	0.004	0.272
Gov. Legitimacy Feedback	0.562	0.317	0.000	0.820

Table 4: Summary of Statistical Data for Political Oppression Level (6)

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	33.377	32.451	0.000	96.000
Arresting Police	47.365	32.113	0.000	96.000
Mean Risk Aversion (P)	0.218	0.092	0.017	0.296
Mean Hardship (P)	0.217	0.092	0.015	0.287
Mean Incentive (P)	0.406	0.240	0.000	0.644
Mean Net Risk (P)	0.188	0.124	0.000	0.296
Mean Decision Formula (P)	0.221	0.287	-0.285	0.644
Rioting Citizens	342.729	412.028	0.000	1116.000
Quiet Citizens	667.971	467.276	4.000	1120.000
Jailed Citizens	206.915	333.659	0.000	936.000
Mean Jail Term	1.934	3.243	0.000	9.071
Mean Risk Aversion (C)	0.430	0.186	0.008	0.522
Mean Hardship (C)	0.428	0.185	0.009	0.518
Mean Grievance (C)	0.107	0.318	-0.522	0.338
Mean Net Risk (C)	0.292	0.226	0.000	0.522
Mean Decision Formula (C)	-0.110	0.280	-0.522	0.336
Mean Arrest Probability (C)	0.581	0.448	0.000	1.000
Mean Threshold (P)	0.135	0.088	0.021	0.281
Mean Threshold (C)	0.132	0.092	0.004	0.285
Gov. Legitimacy Feedback	0.538	0.316	0.000	0.820

Table 5: Summary of Statistical Data for Rebellion Expansion Model

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	46.159	32.464	0.000	96.000
Arresting Police	33.575	33.459	0.000	96.000
Mean Risk Aversion (P)	0.216	0.090	0.018	0.285
Mean Hardship (P)	0.217	0.091	0.016	0.286
Mean Incentive (P)	0.290	0.233	0.000	0.644
Mean Net Risk (P)	0.186	0.122	0.000	0.285
Mean Decision Formula (P)	0.107	0.313	-0.285	0.644
Rioting Citizens	548.192	412.643	0.000	1116.000
Quiet Citizens	346.926	368.101	4.000	1120.000
Jailed Citizens	293.858	325.373	0.000	936.000
Mean Jail Term	2.716	3.150	0.000	9.071
Mean Risk Aversion (C)	0.430	0.187	0.007	0.515
Mean Hardship (C)	0.428	0.185	0.009	0.517
Mean Grievance (C)	-0.049	0.345	-0.522	0.337
Mean Net Risk (C)	0.119	0.188	0.000	0.515
Mean Decision Formula (C)	-0.121	0.324	-0.522	0.336
Mean Arrest Probability (C)	0.234	0.365	0.000	1.000
Mean Threshold (P)	0.138	0.089	0.021	0.281
Mean Threshold (C)	0.075	0.050	0.004	0.159
Gov. Legitimacy Feedback	0.381	0.302	0.000	0.820

Table 6: Summary of Statistical Data for Rebellion Duration Model

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	10.833	10.284	0.000	32.000
Arresting Police	64.610	27.384	12.255	96.000
Mean Risk Aversion (P)	0.215	0.090	0.014	0.275
Mean Hardship (P)	0.213	0.090	0.014	0.272
Mean Incentive (P)	0.514	0.225	0.016	0.643
Mean Net Risk (P)	0.183	0.120	0.000	0.275
Mean Decision Formula (P)	0.338	0.184	0.025	0.643
Rioting Citizens	68.047	173.352	0.000	461.000
Quiet Citizens	862.027	442.466	54.146	1120.000
Jailed Citizens	102.061	237.318	0.000	639.000
Mean Jail Term	1.042	2.455	0.000	6.599
Mean Risk Aversion (C)	0.430	0.186	0.008	0.519
Mean Hardship (C)	0.432	0.187	0.007	0.518
Mean Grievance (C)	0.252	0.125	0.015	0.338
Mean Net Risk (C)	0.363	0.237	0.000	0.519
Mean Decision Formula (C)	-0.110	0.207	-0.365	0.280
Mean Arrest Probability (C)	0.722	0.471	0.000	1.000
Mean Threshold (P)	0.121	0.084	0.030	0.281
Mean Threshold (C)	0.137	0.056	0.017	0.180
Gov. Legitimacy Feedback	0.677	0.300	0.014	0.820

Table 7: Summary of Statistical Data for Increase and Decrease of Rioting Citizens

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	12.283	9.803	0.000	31.000
Arresting Police	59.830	26.547	12.356	96.000
Mean Risk Aversion (P)	0.219	0.093	0.016	0.296
Mean Hardship (P)	0.219	0.092	0.015	0.287
Mean Incentive (P)	0.526	0.227	0.012	0.637
Mean Net Risk (P)	0.189	0.125	0.000	0.296
Mean Decision Formula (P)	0.344	0.179	0.020	0.637
Rioting Citizens	0.000	0.000	0.000	0.000
Quiet Citizens	959.860	423.250	0.018	1120.000
Jailed Citizens	0.146	0.377	0.000	1.000
Mean Jail Term	0.003	0.008	0.000	0.022
Mean Risk Aversion (C)	0.430	0.186	0.010	0.522
Mean Hardship (C)	0.427	0.185	0.009	0.514
Mean Grievance (C)	0.273	0.117	0.009	0.334
Mean Net Risk (C)	0.424	0.184	0.011	0.522
Mean Decision Formula (C)	-0.147	0.078	-0.215	0.014
Mean Arrest Probability (C)	0.840	0.370	0.008	1.000
Mean Threshold (P)	0.133	0.079	0.024	0.252
Mean Threshold (C)	0.198	0.083	0.027	0.285
Gov. Legitimacy Feedback	0.703	0.310	0.000	0.820

Table 8: Summary of Statistical Data for Society without Riots

Variable	Mean	Std. Dev.	Min	Max
Tick	384.907	340.8697	1.000	1297.000
Quiet Police	22.493	17.181	1.000	44.000
Arresting Police	56.440	21.974	8.219	73.000
Mean Risk Aversion (P)	0.250	0.088	0.018	0.285
Mean Hardship (P)	0.250	0.088	0.016	0.286
Mean Incentive (P)	0.516	0.201	0.066	0.618
Mean Net Risk (P)	0.250	0.088	0.018	0.285
Mean Decision Formula (P)	0.270	0.098	0.067	0.391
Rioting Citizens	94.218	168.135	0.000	475.000
Quiet Citizens	562.212	308.081	118.164	980.000
Jailed Citizens	412.745	254.922	18.000	735.000
Mean Jail Term	3.960	2.320	0.192	6.611
Mean Risk Aversion (C)	0.414	0.197	0.007	0.515
Mean Hardship (C)	0.413	0.197	0.009	0.518
Mean Grievance (C)	0.152	0.129	-0.014	0.324
Mean Net Risk (C)	0.355	0.211	0.000	0.523
Mean Decision Formula (C)	-0.158	0.246	-0.508	0.324
Mean Arrest Probability (C)	0.724	0.361	0.000	1.000
Mean Threshold (P)	0.150	0.075	0.021	0.281
Mean Threshold (C)	0.085	0.053	0.004	0.159
Gov. Legitimacy Feedback	0.673	0.274	0.088	0.820

Table 9: Summary of Statistical Data at the Time of Gradual Increase in Riots

Table 10: Neighbor Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Simulation Run	94.847	66.354	1.000	200.000
Neighbor Effect Probability	12.593	6.178	5.000	20.000
Tick	448.633	327.827	0.000	1,000.000
Quiet Police	20.154	20.671	0.000	64.000
Arresting Police	38.939	23.126	0.000	64.000
Mean Risk Aversion (P)	0.215	0.092	0.018	0.293
Mean Hardship (P)	0.218	0.093	0.017	0.302
Mean Incentive (P)	0.453	0.253	0.057	0.653
Mean Net Risk (P)	0.188	0.123	0.000	0.293
Mean Decision Formula (P)	0.273	0.261	-0.198	0.653
Rioting Citizens	229.974	379.030	0.000	1,053.000
Quiet Citizens	748.445	423.448	60.000	1,120.000
Jailed Citizens	167.021	262.349	0.000	737.000
Mean Jail Term	1.569	2.516	0.000	7.059
Mean Risk Aversion (C)	0.430	0.186	0.008	0.520
Mean Hardship (C)	0.430	0.186	0.009	0.525
Mean Grievance (C)	0.174	0.270	-0.422	0.345
Mean Net Risk (C)	0.308	0.215	0.000	0.520
Mean Decision Formula (C)	-0.082	0.245	-0.422	0.338
Mean Arrest Probability (C)	0.609	0.425	0.000	1.000
Mean Threshold (P)	0.160	0.089	0.050	0.299
Mean Threshold (C)	0.170	0.090	0.051	0.300
Gov. Legitimacy Feedback	0.598	0.333	0.073	0.820
Neighbor Diffusion Count	3,485.949	6,429.308	0.000	17,706.000

Table 11: Neighbor Effect 5 Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	445.591	327.289	0.000	1,000.000
Quiet Police	19.945	20.795	0.000	64.000
Arresting Police	39.152	23.288	0.000	64.000
Mean Risk Aversion (P)	0.219	0.091	0.018	0.293
Mean Hardship (P)	0.219	0.093	0.018	0.302
Mean Incentive (P)	0.454	0.252	0.062	0.648
Mean Net Risk (P)	0.188	0.123	0.000	0.293
Mean Decision Formula (P)	0.273	0.260	-0.198	0.648
Rioting Citizens	225.420	379.092	0.000	1,048.000
Quiet Citizens	760.536	418.364	60.000	1,120.000
Jailed Citizens	160.551	255.142	0.000	716.000
Mean Jail Term	1.489	2.397	0.000	6.721
Mean Risk Aversion (C)	0.431	0.187	0.008	0.520
Mean Hardship (C)	0.431	0.187	0.008	0.519
Mean Grievance (C)	0.177	0.265	-0.407	0.339
Mean Net Risk (C)	0.318	0.204	0.000	0.520
Mean Decision Formula (C)	-0.080	0.242	-0.407	0.338
Mean Arrest Probability (C)	0.631	0.402	0.000	1.000
Mean Threshold (P)	0.156	0.084	0.059	0.297
Mean Threshold (C)	0.175	0.092	0.053	0.300
Gov. Legitimacy Feedback	0.601	0.332	0.082	0.820
Neighbor Diffusion Count	3,341.947	6,222.101	0.000	17,094.000

Table 12: Neighbor Effect 10 Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	444.113	326.954	0.000	1,000.000
Quiet Police	20.480	20.534	0.000	64.000
Arresting Police	38.767	22.870	0.000	64.000
Mean Risk Aversion (P)	0.217	0.091	0.016	0.281
Mean Hardship (P)	0.220	0.092	0.019	0.291
Mean Incentive (P)	0.444	0.245	0.057	0.646
Mean Net Risk (P)	0.187	0.122	0.000	0.281
Mean Decision Formula (P)	0.267	0.251	-0.176	0.646
Rioting Citizens	261.865	374.259	0.000	1,053.000
Quiet Citizens	715.229	439.063	61.000	1,120.000
Jailed Citizens	182.195	252.035	0.000	706.000
Mean Jail Term	1.694	2.385	0.000	6.692
Mean Risk Aversion (C)	0.431	0.186	0.009	0.517
Mean Hardship (C)	0.429	0.186	0.008	0.515
Mean Grievance (C)	0.162	0.266	-0.422	0.335
Mean Net Risk (C)	0.295	0.227	0.000	0.515
Mean Decision Formula (C)	-0.074	0.244	-0.422	0.335
Mean Arrest Probability (C)	0.585	0.449	0.000	1.000
Mean Threshold (P)	0.155	0.086	0.051	0.299
Mean Threshold (C)	0.165	0.088	0.054	0.292
Gov. Legitimacy Feedback	0.588	0.324	0.073	0.820
Neighbor Diffusion Count	3,765.764	6,345.890	0.000	17,706.000

Table 13: Neighbor Effect 15 Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	454.206	329.035	0.000	1,000.000
Quiet Police	20.266	20.699	0.000	64.000
Arresting Police	38.765	23.145	0.000	64.000
Mean Risk Aversion (P)	0.212	0.090	0.019	0.286
Mean Hardship (P)	0.216	0.091	0.015	0.282
Mean Incentive (P)	0.456	0.251	0.075	0.642
Mean Net Risk (P)	0.185	0.121	0.000	0.286
Mean Decision Formula (P)	0.277	0.256	-0.184	0.642
Rioting Citizens	216.637	381.651	0.000	1,052.000
Quiet Citizens	762.219	423.176	62.000	1,120.000
Jailed Citizens	162.732	258.972	0.000	727.000
Mean Jail Term	1.518	2.458	0.000	6.892
Mean Risk Aversion (C)	0.430	0.187	0.007	0.518
Mean Hardship (C)	0.430	0.186	0.011	0.525
Mean Grievance (C)	0.177	0.265	-0.403	0.345
Mean Net Risk (C)	0.329	0.195	0.000	0.518
Mean Decision Formula (C)	-0.081	0.236	-0.403	0.328
Mean Arrest Probability (C)	0.652	0.384	0.000	1.000
Mean Threshold (P)	0.164	0.093	0.050	0.299
Mean Threshold (C)	0.174	0.092	0.053	0.298
Gov. Legitimacy Feedback	0.602	0.331	0.097	0.820
Neighbor Diffusion Count	3,407.655	6,390.057	0.000	17,559.000

Table 14: Neighbor Effect 20 Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	450.665	328.147	0.000	1,000.000
Quiet Police	20.209	20.540	0.000	64.000
Arresting Police	38.782	23.031	0.000	64.000
Mean Risk Aversion (P)	0.219	0.091	0.018	0.284
Mean Hardship (P)	0.214	0.090	0.016	0.279
Mean Incentive (P)	0.460	0.251	0.074	0.653
Mean Net Risk (P)	0.189	0.123	0.000	0.284
Mean Decision Formula (P)	0.276	0.260	-0.196	0.653
Rioting Citizens	214.938	385.706	0.000	1,052.000
Quiet Citizens	793.624	417.859	60.000	1,120.000
Jailed Citizens	151.264	265.685	0.000	737.000
Mean Jail Term	1.429	2.548	0.000	7.059
Mean Risk Aversion (C)	0.430	0.186	0.008	0.519
Mean Hardship (C)	0.430	0.187	0.007	0.518
Mean Grievance (C)	0.181	0.267	-0.407	0.338
Mean Net Risk (C)	0.357	0.190	0.000	0.519
Mean Decision Formula (C)	-0.085	0.238	-0.407	0.329
Mean Arrest Probability (C)	0.711	0.377	0.000	1.000
Mean Threshold (P)	0.159	0.084	0.055	0.278
Mean Threshold (C)	0.170	0.088	0.051	0.299
Gov. Legitimacy Feedback	0.608	0.332	0.094	0.820
Neighbor Diffusion Count	3,353.842	6,449.647	0.000	17,629.000

Table 15: Neighbor Effect Riot Duration Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	30.244	21.391	0.000	64.000
Arresting Police	29.685	21.329	0.000	64.000
Mean Risk Aversion (P)	0.217	0.091	0.017	0.286
Mean Hardship (P)	0.220	0.093	0.017	0.300
Mean Incentive (P)	0.364	0.211	0.057	0.641
Mean Net Risk (P)	0.187	0.122	0.000	0.286
Mean Decision Formula (P)	0.185	0.253	-0.198	0.641
Rioting Citizens	497.430	361.775	0.000	1,053.000
Quiet Citizens	368.662	351.215	60.000	1,120.000
Jailed Citizens	317.408	237.695	0.000	737.000
Mean Jail Term	2.954	2.274	0.000	7.059
Mean Risk Aversion (C)	0.430	0.187	0.008	0.518
Mean Hardship (C)	0.429	0.185	0.009	0.519
Mean Grievance (C)	0.055	0.251	-0.422	0.339
Mean Net Risk (C)	0.102	0.190	0.000	0.516
Mean Decision Formula (C)	0.014	0.247	-0.422	0.338
Mean Arrest Probability (C)	0.200	0.368	0.000	1.000
Mean Threshold (P)	0.160	0.085	0.059	0.296
Mean Threshold (C)	0.086	0.039	0.029	0.143
Gov. Legitimacy Feedback	0.481	0.275	0.073	0.820
Neighbor Diffusion Count	6,681.896	5,958.599	0.000	17,706.000

Table 16: Neighbor Effect Riot Repetition Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	11.827	9.195	0.000	28.000
Arresting Police	45.110	18.942	7.279	64.000
Mean Risk Aversion (P)	0.217	0.090	0.018	0.280
Mean Hardship (P)	0.219	0.093	0.016	0.302
Mean Incentive (P)	0.505	0.222	0.026	0.642
Mean Net Risk (P)	0.186	0.121	0.000	0.280
Mean Decision Formula (P)	0.326	0.186	0.031	0.642
Rioting Citizens	56.876	134.503	0.000	361.000
Quiet Citizens	849.658	418.613	121.581	1,120.000
Jailed Citizens	124.531	227.661	0.000	634.000
Mean Jail Term	1.171	2.174	0.000	6.038
Mean Risk Aversion (C)	0.432	0.187	0.008	0.519
Mean Hardship (C)	0.433	0.188	0.007	0.525
Mean Grievance (C)	0.244	0.129	0.031	0.345
Mean Net Risk (C)	0.365	0.220	0.000	0.519
Mean Decision Formula (C)	-0.103	0.218	-0.396	0.283
Mean Arrest Probability (C)	0.723	0.435	0.000	1.000
Mean Threshold (P)	0.158	0.088	0.055	0.292
Mean Threshold (C)	0.142	0.059	0.010	0.180
Gov. Legitimacy Feedback	0.667	0.294	0.030	0.820
Neighbor Diffusion Count	506.133	1,036.972	0.000	2,841.000



Table 17: Neighbor Effect No Riots Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Quiet Police	11.877	9.394	0.000	29.000
Arresting Police	45.020	19.051	7.138	64.000
Mean Risk Aversion (P)	0.215	0.092	0.018	0.293
Mean Hardship (P)	0.216	0.092	0.017	0.291
Mean Incentive (P)	0.529	0.228	0.014	0.653
Mean Net Risk (P)	0.188	0.123	0.000	0.293
Mean Decision Formula (P)	0.350	0.182	0.026	0.653
Rioting Citizens	0.000	0.000	0	0
Quiet Citizens	960.000	423.320	0	1,120
Jailed Citizens	0.000	0.000	0	0
Mean Jail Term	0.000	0.000	0	0
Mean Risk Aversion (C)	0.429	0.186	0.008	0.520
Mean Hardship (C)	0.430	0.186	0.008	0.521
Mean Grievance (C)	0.276	0.119	0.008	0.341
Mean Net Risk (C)	0.416	0.183	0.011	0.520
Mean Decision Formula (C)	-0.139	0.077	-0.203	0.013
Mean Arrest Probability (C)	0.827	0.364	0.015	1.000
Mean Threshold (P)	0.160	0.089	0.050	0.299
Mean Threshold (C)	0.212	0.087	0.035	0.300
Gov. Legitimacy Feedback	0.703	0.310	0.000	0.820
Neighbor Diffusion Count	0.000	0.000	0	0

Table 18: Neighbor Effect Riot Duration Start Point Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Neighbor Effect Probability	11.093	5.297	5.000	20.000
Tick	172.464	232.565	1.000	676.000
Quiet Police	13.478	8.076	4.000	28.000
Arresting Police	43.074	17.955	5.933	60.000
Mean Risk Aversion (P)	0.217	0.091	0.018	0.286
Mean Hardship (P)	0.220	0.093	0.017	0.300
Mean Incentive (P)	0.497	0.209	0.035	0.633
Mean Net Risk (P)	0.217	0.091	0.018	0.286
Mean Decision Formula (P)	0.282	0.119	0.036	0.391
Rioting Citizens	134.320	182.703	1.000	516.000
Quiet Citizens	624.903	277.881	95.648	972.000
Jailed Citizens	289.096	227.264	19.000	654.000
Mean Jail Term	2.404	1.895	0.212	5.674
Mean Risk Aversion (C)	0.430	0.187	0.008	0.518
Mean Hardship (C)	0.429	0.186	0.009	0.519
Mean Grievance (C)	0.235	0.101	0.049	0.335
Mean Net Risk (C)	0.286	0.209	0.000	0.509
Mean Decision Formula (C)	0.005	0.272	-0.358	0.329
Mean Arrest Probability (C)	0.572	0.417	0.000	0.999
Mean Threshold (P)	0.163	0.085	0.059	0.296
Mean Threshold (C)	0.083	0.039	0.029	0.143
Gov. Legitimacy Feedback	0.666	0.278	0.047	0.820
Neighbor Diffusion Count	718.487	706.677	9.000	2,075.000

Table 19: Neighbor Jump Effect Overall Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	443.556	327.034	0.000	1,000.000
Quiet Police	21.091	20.566	0.000	64.000
Arresting Police	38.337	22.692	0.000	64.000
Mean Risk Aversion (P)	0.217	0.092	0.017	0.301
Mean Hardship (P)	0.214	0.092	0.018	0.297
Mean Incentive (P)	0.446	0.248	0.055	0.661
Mean Net Risk (P)	0.188	0.123	0.000	0.301
Mean Decision Formula (P)	0.266	0.265	-0.209	0.661
Rioting Citizens	278.071	390.788	0.000	1,099.000
Quiet Citizens	704.566	453.213	4.000	1,120.000
Jailed Citizens	189.390	264.679	0.000	741.000
Mean Jail Term	1.754	2.476	0.000	6.941
Mean Risk Aversion (C)	0.431	0.187	0.009	0.530
Mean Hardship (C)	0.431	0.187	0.008	0.532
Mean Grievance (C)	0.161	0.268	-0.425	0.352
Mean Net Risk (C)	0.295	0.228	0.000	0.529
Mean Decision Formula (C)	-0.065	0.249	-0.425	0.352
Mean Arrest Probability (C)	0.583	0.448	0.000	1.000
Mean Threshold (P)	0.160	0.089	0.050	0.299
Mean Threshold (C)	0.162	0.088	0.053	0.299
Gov. Legitimacy Feedback	0.586	0.324	0.073	0.820
Neighbor Diffusion Count	3,881.497	6,441.751	0.000	18,023.000
Information Transmission Count	4,016.581	7,552.166	0.000	20,811.000

Table 20: Neighbor 5 Jump 5 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	441.859	326.227	0.000	1,000.000
Quiet Police	20.936	20.940	0.000	64.000
Arresting Police	38.925	22.921	0.000	64.000
Mean Risk Aversion (P)	0.212	0.090	0.015	0.286
Mean Hardship (P)	0.216	0.090	0.020	0.285
Mean Incentive (P)	0.439	0.236	0.075	0.652
Mean Net Risk (P)	0.182	0.120	0.000	0.286
Mean Decision Formula (P)	0.265	0.253	-0.174	0.652
Rioting Citizens	299.115	383.495	0.000	1,062.000
Quiet Citizens	696.670	448.421	49.000	1,120.000
Jailed Citizens	202.442	266.261	0.000	737.000
Mean Jail Term	1.867	2.471	0.000	6.854
Mean Risk Aversion (C)	0.426	0.184	0.008	0.509
Mean Hardship (C)	0.430	0.186	0.008	0.517
Mean Grievance (C)	0.151	0.260	-0.407	0.337
Mean Net Risk (C)	0.288	0.223	0.000	0.509
Mean Decision Formula (C)	-0.058	0.241	-0.407	0.337
Mean Arrest Probability (C)	0.579	0.447	0.000	1.000
Mean Threshold (P)	0.141	0.081	0.051	0.279
Mean Threshold (C)	0.160	0.085	0.064	0.292
Gov. Legitimacy Feedback	0.580	0.309	0.099	0.820
Neighbor Diffusion Count	4,065.361	5,856.255	0.000	16,484.000
Information Transmission Count	4,184.033	7,275.178	0.000	20,251.000

Table 21: Neighbor 5 Jump 10 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	441.593	326.885	0.000	1,000.000
Quiet Police	21.399	20.566	0.000	64.000
Arresting Police	37.915	22.655	0.000	64.000
Mean Risk Aversion (P)	0.215	0.089	0.019	0.283
Mean Hardship (P)	0.213	0.089	0.021	0.297
Mean Incentive (P)	0.451	0.240	0.091	0.655
Mean Net Risk (P)	0.185	0.121	0.000	0.283
Mean Decision Formula (P)	0.274	0.245	-0.146	0.655
Rioting Citizens	275.312	388.162	0.000	1,092.000
Quiet Citizens	705.252	447.393	19.000	1,120.000
Jailed Citizens	186.560	249.739	0.000	699.000
Mean Jail Term	1.701	2.280	0.000	6.383
Mean Risk Aversion (C)	0.428	0.185	0.009	0.511
Mean Hardship (C)	0.428	0.185	0.010	0.513
Mean Grievance (C)	0.163	0.245	-0.371	0.333
Mean Net Risk (C)	0.291	0.224	0.000	0.511
Mean Decision Formula (C)	-0.058	0.231	-0.371	0.333
Mean Arrest Probability (C)	0.582	0.447	0.000	1.000
Mean Threshold (P)	0.168	0.082	0.066	0.295
Mean Threshold (C)	0.160	0.084	0.057	0.295
Gov. Legitimacy Feedback	0.592	0.314	0.118	0.820
Neighbor Diffusion Count	3,699.371	6,070.820	0.000	17,004.000
Information Transmission Count	3,828.158	7,122.638	0.000	19,643.000

Table 22: Neighbor 5 Jump 15 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	442.238	326.671	0.000	1,000.000
Quiet Police	21.148	20.618	0.000	64.000
Arresting Police	38.365	22.699	0.000	64.000
Mean Risk Aversion (P)	0.222	0.092	0.021	0.301
Mean Hardship (P)	0.213	0.089	0.019	0.286
Mean Incentive (P)	0.443	0.246	0.055	0.652
Mean Net Risk (P)	0.191	0.124	0.000	0.301
Mean Decision Formula (P)	0.259	0.261	-0.209	0.652
Rioting Citizens	279.281	387.797	0.000	1,090.000
Quiet Citizens	701.687	453.347	4.000	1,120.000
Jailed Citizens	194.639	265.410	0.000	741.000
Mean Jail Term	1.805	2.483	0.000	6.941
Mean Risk Aversion (C)	0.430	0.186	0.011	0.521
Mean Hardship (C)	0.430	0.186	0.007	0.516
Mean Grievance (C)	0.156	0.266	-0.425	0.336
Mean Net Risk (C)	0.293	0.226	0.000	0.521
Mean Decision Formula (C)	-0.063	0.243	-0.425	0.330
Mean Arrest Probability (C)	0.581	0.447	0.000	1.000
Mean Threshold (P)	0.154	0.083	0.050	0.274
Mean Threshold (C)	0.159	0.082	0.058	0.276
Gov. Legitimacy Feedback	0.583	0.323	0.073	0.820
Neighbor Diffusion Count	3,945.715	6,430.459	0.000	18,023.000
Information Transmission Count	3,833.090	6,978.005	0.000	19,290.000

Table 23: Neighbor 5 Jump 20 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	441.859	326.227	0.000	1,000.000
Quiet Police	20.936	20.940	0.000	64.000
Arresting Police	38.925	22.921	0.000	64.000
Mean Risk Aversion (P)	0.212	0.090	0.015	0.286
Mean Hardship (P)	0.216	0.090	0.020	0.285
Mean Incentive (P)	0.439	0.236	0.075	0.652
Mean Net Risk (P)	0.182	0.120	0.000	0.286
Mean Decision Formula (P)	0.265	0.253	-0.174	0.652
Rioting Citizens	299.115	383.495	0.000	1,062.000
Quiet Citizens	696.670	448.421	49.000	1,120.000
Jailed Citizens	202.442	266.261	0.000	737.000
Mean Jail Term	1.867	2.471	0.000	6.854
Mean Risk Aversion (C)	0.426	0.184	0.008	0.509
Mean Hardship (C)	0.430	0.186	0.008	0.517
Mean Grievance (C)	0.151	0.260	-0.407	0.337
Mean Net Risk (C)	0.288	0.223	0.000	0.509
Mean Decision Formula (C)	-0.058	0.241	-0.407	0.337
Mean Arrest Probability (C)	0.579	0.447	0.000	1.000
Mean Threshold (P)	0.141	0.081	0.051	0.279
Mean Threshold (C)	0.160	0.085	0.064	0.292
Gov. Legitimacy Feedback	0.580	0.309	0.099	0.820
Neighbor Diffusion Count	4,065.361	5,856.255	0.000	16,484.000
Information Transmission Count	4,184.033	7,275.178	0.000	20,251.000

Table 24: Neighbor 10 Jump 5 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	452.825	329.193	0.000	1,000.000
Quiet Police	19.547	20.742	0.000	64.000
Arresting Police	39.433	23.381	0.000	64.000
Mean Risk Aversion (P)	0.213	0.090	0.017	0.285
Mean Hardship (P)	0.213	0.090	0.015	0.280
Mean Incentive (P)	0.459	0.241	0.096	0.646
Mean Net Risk (P)	0.184	0.120	0.000	0.285
Mean Decision Formula (P)	0.281	0.251	-0.171	0.646
Rioting Citizens	241.191	388.954	0.000	1,085.000
Quiet Citizens	735.220	434.646	29.000	1,120.000
Jailed Citizens	170.329	253.824	0.000	714.000
Mean Jail Term	1.557	2.338	0.000	6.577
Mean Risk Aversion (C)	0.429	0.186	0.007	0.513
Mean Hardship (C)	0.429	0.186	0.007	0.511
Mean Grievance (C)	0.178	0.248	-0.368	0.331
Mean Net Risk (C)	0.299	0.223	0.000	0.512
Mean Decision Formula (C)	-0.077	0.230	-0.368	0.330
Mean Arrest Probability (C)	0.597	0.443	0.000	1.000
Mean Threshold (P)	0.159	0.088	0.061	0.297
Mean Threshold (C)	0.171	0.090	0.053	0.295
Gov. Legitimacy Feedback	0.605	0.316	0.128	0.820
Neighbor Diffusion Count	3,376.928	6,094.841	0.000	16,826.000
Information Transmission Count	3,662.864	7,273.721	0.000	19,873.000

Table 25: Neighbor 10 Jump 10 Effect Model Statistics

Variable	Mean	Std. Dev.	Min	Max
Tick	453.707	329.056	0.000	1,000.000
Quiet Police	20.053	20.584	0.000	64.000
Arresting Police	38.887	23.127	0.000	64.000
Mean Risk Aversion (P)	0.217	0.091	0.018	0.299
Mean Hardship (P)	0.214	0.089	0.016	0.272
Mean Incentive (P)	0.462	0.235	0.112	0.645
Mean Net Risk (P)	0.186	0.122	0.000	0.299
Mean Decision Formula (P)	0.282	0.243	-0.139	0.645
Rioting Citizens	231.845	393.395	0.000	1,091.000
Quiet Citizens	747.359	434.001	17.000	1,120.000
Jailed Citizens	169.248	254.576	0.000	716.000
Mean Jail Term	1.559	2.372	0.000	6.670
Mean Risk Aversion (C)	0.432	0.187	0.009	0.530
Mean Hardship (C)	0.430	0.187	0.008	0.518
Mean Grievance (C)	0.185	0.236	-0.331	0.338
Mean Net Risk (C)	0.314	0.212	0.000	0.529
Mean Decision Formula (C)	-0.077	0.228	-0.364	0.326
Mean Arrest Probability (C)	0.619	0.414	0.000	1.000
Mean Threshold (P)	0.166	0.083	0.067	0.292
Mean Threshold (C)	0.172	0.091	0.058	0.299
Gov. Legitimacy Feedback	0.610	0.311	0.149	0.820
Neighbor Diffusion Count	3,142.729	5,731.076	0.000	15,791.000
Information Transmission Count	3,548.318	7,193.610	0.000	19,612.000

Table 26: Statistics of Neighbor 10 Jump 15 Effect Model

Variable Name	Mean	Std. Dev.	Min	Max
Tick	446.421	327.387	0.000	1,000.000
Quiet Police	20.135	20.578	0.000	64.000
Arresting Police	39.097	22.999	0.000	64.000
Mean Risk Aversion (P)	0.214	0.089	0.015	0.272
Mean Hardship (P)	0.213	0.091	0.018	0.292
Mean Incentive (P)	0.457	0.247	0.079	0.661
Mean Net Risk (P)	0.182	0.120	0.000	0.272
Mean Decision Formula (P)	0.280	0.255	-0.170	0.661
Rioting Citizens	255.494	391.764	0.000	1,099.000
Quiet Citizens	722.226	443.315	12.000	1,120.000
Jailed Citizens	168.698	252.232	0.000	711.000
Mean Jail Term	1.562	2.376	0.000	6.694
Mean Risk Aversion (C)	0.432	0.187	0.008	0.518
Mean Hardship (C)	0.428	0.186	0.008	0.515
Mean Grievance (C)	0.173	0.255	-0.388	0.335
Mean Net Risk (C)	0.298	0.229	0.000	0.518
Mean Decision Formula (C)	-0.077	0.237	-0.388	0.333
Mean Arrest Probability (C)	0.589	0.451	0.000	1.000
Mean Threshold (P)	0.162	0.089	0.053	0.299
Mean Threshold (C)	0.157	0.085	0.055	0.293
Gov. Legitimacy Feedback	0.598	0.322	0.101	0.820
Neighbor Diffusion Count	3,398.691	5,942.634	0.000	16,490.000
Info. Transmission Count	3,872.241	7,602.449	0.000	20,811.000

Table 27: Statistics of Neighbor 10 Jump 20 Effect Model

Variable Name	Mean	Std. Dev.	Min	Max
Tick	451.734	328.373	0.000	1,000.000
Quiet Police	20.260	20.577	0.000	64.000
Arresting Police	38.669	23.073	0.000	64.000
Mean Risk Aversion (P)	0.212	0.089	0.017	0.280
Mean Hardship (P)	0.215	0.091	0.015	0.281
Mean Incentive (P)	0.456	0.246	0.086	0.645
Mean Net Risk (P)	0.183	0.119	0.000	0.280
Mean Decision Formula (P)	0.275	0.259	-0.194	0.645
Rioting Citizens	231.686	390.950	0.000	1,085.000
Quiet Citizens	744.598	433.779	20.000	1,120.000
Jailed Citizens	170.862	251.702	0.000	708.000
Mean Jail Term	1.553	2.294	0.000	6.454
Mean Risk Aversion (C)	0.429	0.186	0.007	0.517
Mean Hardship (C)	0.434	0.187	0.010	0.532
Mean Grievance (C)	0.178	0.262	-0.397	0.352
Mean Net Risk (C)	0.307	0.213	0.000	0.517
Mean Decision Formula (C)	-0.072	0.242	-0.397	0.352
Mean Arrest Probability (C)	0.612	0.422	0.000	1.000
Mean Threshold (P)	0.159	0.080	0.067	0.283
Mean Threshold (C)	0.168	0.088	0.054	0.299
Gov. Legitimacy Feedback	0.602	0.324	0.112	0.820
Neighbor Diffusion Count	3,386.887	6,203.893	0.000	17,117.000
Info. Transmission Count	3,603.279	7,220.245	0.000	19,709.000

Table 28: Statistics of Neighbor Jump Effect Riot Persistence Model

Variable Name	Mean	Std. Dev.	Min	Max
Diffusion Probability	6.374	2.821	2.475	10.000
Jump Probability	12.657	6.156	5.000	20.000
Tick	406.160	321.874	0.000	1,000.000
Quiet Police	29.532	21.158	0.000	64.000
Arresting Police	30.472	21.261	0.000	64.000
Mean Risk Aversion (P)	0.217	0.092	0.017	0.300
Mean Hardship (P)	0.215	0.090	0.017	0.286
Mean Incentive (P)	0.373	0.215	0.055	0.648
Mean Net Risk (P)	0.188	0.124	0.000	0.300
Mean Decision Formula (P)	0.193	0.258	-0.209	0.648
Rioting Citizens	489.715	378.348	0.000	1,099.000
Quiet Citizens	380.333	359.450	4.000	1,120.000
Jailed Citizens	313.315	238.579	0.000	741.000
Mean Jail Term	2.895	2.239	0.000	6.941
Mean Risk Aversion (C)	0.430	0.187	0.009	0.530
Mean Hardship (C)	0.431	0.187	0.009	0.532
Mean Grievance (C)	0.068	0.255	-0.425	0.352
Mean Net Risk (C)	0.111	0.194	0.000	0.529
Mean Decision Formula (C)	0.014	0.251	-0.425	0.352
Mean Arrest Probability (C)	0.214	0.367	0.000	1.000
Mean Threshold (P)	0.161	0.089	0.050	0.299
Mean Threshold (C)	0.094	0.045	0.030	0.161
Gov. Legitimacy Feedback	0.491	0.278	0.073	0.820
Neighbor Diffusion Count	6,357.691	6,066.078	0.000	18,023.000
Info. Transmission Count	6,059.236	7,110.807	0.000	20,811.000

Table 29: Statistics of Neighbor Jump Effect Riot Repetition Model

Variable Name	Mean	Std. Dev.	Min	Max
Diffusion Probability	7.224	3.083	2.412	10.000
Jump Probability	11.762	5.541	4.965	20.000
Tick	469.853	332.458	0.000	1,000.000
Quiet Police	10.668	8.198	0.000	26.000
Arresting Police	45.906	19.300	6.010	64.000
Mean Risk Aversion (P)	0.210	0.088	0.014	0.271
Mean Hardship (P)	0.218	0.092	0.011	0.275
Mean Incentive (P)	0.509	0.222	0.018	0.632
Mean Net Risk (P)	0.179	0.118	0.000	0.271
Mean Decision Formula (P)	0.333	0.185	0.024	0.632
Rioting Citizens	52.675	128.683	0.000	344.000
Quiet Citizens	871.195	414.969	89.342	1,120.000
Jailed Citizens	100.058	201.063	0.000	552.000
Mean Jail Term	0.948	1.924	0.000	5.275
Mean Risk Aversion (C)	0.428	0.185	0.009	0.514
Mean Hardship (C)	0.428	0.185	0.008	0.510
Mean Grievance (C)	0.246	0.122	0.024	0.330
Mean Net Risk (C)	0.361	0.226	0.000	0.514
Mean Decision Formula (C)	-0.103	0.213	-0.368	0.291
Mean Arrest Probability (C)	0.723	0.451	0.000	1.000
Mean Threshold (P)	0.149	0.087	0.051	0.292
Mean Threshold (C)	0.143	0.060	0.010	0.180
Gov. Legitimacy Feedback	0.677	0.297	0.021	0.820
Neighbor Diffusion Count	398.359	876.171	0.000	2,377.000
Info. Transmission Count	164.471	364.652	0.000	988.000

Table 30: Statistics of Neighbor Jump Effect No Riot Model

Variable Name	Mean	Std. Dev.	Min	Max
Diffusion Probability	7.185	3.051	2.480	10.000
Jump Probability	10.361	5.746	5.000	20.000
Tick	469.852	332.459	0.000	1,000.000
Quiet Police	11.339	9.033	0.000	28.000
Arresting Police	45.449	19.199	6.757	64.000
Mean Risk Aversion (P)	0.217	0.092	0.018	0.301
Mean Hardship (P)	0.214	0.091	0.020	0.297
Mean Incentive (P)	0.532	0.229	0.016	0.661
Mean Net Risk (P)	0.187	0.123	0.000	0.301
Mean Decision Formula (P)	0.354	0.185	0.026	0.661
Rioting Citizens	0.000	0.000	0	0
Quiet Citizens	959.718	423.185	0.027	1,120.000
Jailed Citizens	0.290	0.754	0.000	2.000
Mean Jail Term	0.005	0.012	0.000	0.031
Mean Risk Aversion (C)	0.430	0.186	0.009	0.521
Mean Hardship (C)	0.429	0.186	0.008	0.518
Mean Grievance (C)	0.275	0.118	0.008	0.338
Mean Net Risk (C)	0.415	0.183	0.011	0.521
Mean Decision Formula (C)	-0.141	0.077	-0.206	0.012
Mean Arrest Probability (C)	0.827	0.365	0.014	1.000
Mean Threshold (P)	0.161	0.090	0.051	0.298
Mean Threshold (C)	0.209	0.086	0.033	0.299
Gov. Legitimacy Feedback	0.703	0.310	0.000	0.820
Neighbor Diffusion Count	0.155	0.374	0.000	1.000
Info. Transmission Count	0.000	0.000	0	0

Table 31: Statistics of Neighbor Jump Effect Riot Persistence Start Point Model

Variable Name	Mean	Std. Dev.	Min	Max
Diffusion Probability	6.364	2.818	2.474	10.000
Jump Probability	12.679	6.152	5.000	20.000
Tick	228.275	292.599	1.000	853.000
Quiet Police	14.354	8.951	3.000	30.000
Arresting Police	42.241	17.917	6.083	61.000
Mean Risk Aversion (P)	0.218	0.093	0.017	0.300
Mean Hardship (P)	0.215	0.090	0.017	0.286
Mean Incentive (P)	0.493	0.208	0.041	0.645
Mean Net Risk (P)	0.218	0.093	0.017	0.300
Mean Decision Formula (P)	0.278	0.120	0.041	0.390
Rioting Citizens	133.540	187.890	1.000	534.000
Quiet Citizens	667.484	296.719	125.798	1,090.000
Jailed Citizens	274.773	215.005	9.000	602.000
Mean Jail Term	2.292	1.856	0.133	5.484
Mean Risk Aversion (C)	0.430	0.187	0.009	0.530
Mean Hardship (C)	0.431	0.187	0.009	0.532
Mean Grievance (C)	0.230	0.106	0.053	0.352
Mean Net Risk (C)	0.284	0.200	0.000	0.507
Mean Decision Formula (C)	0.007	0.272	-0.339	0.352
Mean Arrest Probability (C)	0.568	0.399	0.000	0.998
Mean Threshold (P)	0.167	0.091	0.050	0.299
Mean Threshold (C)	0.091	0.044	0.030	0.161
Gov. Legitimacy Feedback	0.654	0.273	0.054	0.820
Neighbor Diffusion Count	836.430	835.186	3.000	2,456.000
Info. Transmission Count	365.708	372.009	0.000	1,091.000